

مصنع دانة لوبريكانتس (ذ م م)

## DANA LUBRICANTS FACTORY L.L.C

(A Division of DANA Group)



Registered company by IIC (No: JU- 11148)

### MATERIAL SAFETY DATA SHEET

#### ENA Anhydrous 99.9%

#### SYNONYMS:

Ethanol, Fermentation Alcohol, Alcohol, Sugarcane Molasses Alcohol

MOLECULAR: C<sub>2</sub>H<sub>5</sub>OH

#### USES:

Ethyl alcohol is an important industrial chemical; it is used as a solvent, in the synthesis of other organic chemicals, and also as an additive to motorcar gasoline (forming a mixture known as a gasohol in varying percentages). Ethyl alcohol is also used for scents, flavorings, coloring, inks and medicines.

#### PHYSICAL DATA:

Appearance: Colorless, Clear Liquid

Melting point: -144 C

Boiling point: 78 C

Specific gravity: 0.789

Vapor pressure: 1.59

Flash point: 14 C (closed cup)

Explosion limits: 3.3% - 24.5%

#### STABILITY:

Stable. Substances to be avoided include strong oxidizing agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals, ammonia and moisture, Forms explosive mixtures with air.

Causes skin and eye irritation. Ingestion can cause nausea, vomiting and inebriation; chronic use can cause serious liver damage. Note "denatured" alcohol has substances added to it which make it unpleasant and possibly hazardous to



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OEM CERTIFICATIONS\*  
\*available





**RISK PHRASES APPLICABLE TO ETHANOL:**

- R11 Highly flammable
- R20 Harmful by inhalation
- R21 Harmful on contact with skin
- R22 Harmful if swallowed
- R36 Irritating to eyes
- R37 Irritating to respiratory system
- R38 Irritating to skin
- R40 Limited evidence of a carcinogenic effect

**TRANSPORT INFORMATION:**

UN No 1170. Packing Group II. Hazard Class 3.0  
Flammable liquid having a medium to high degree of hazard associated with transportation.

**PERSONAL PROTECTION:**

Safety Glasses, Suitable Ventilation.

**SAFETY PHRASES APPLICABLE TO ETHANOL:**

- S7 Keep container tightly closed
- S16 Keep away from sources of ignition
- S24 Avoid contact with skin
- S25 Avoid contact with eyes
- S36 Wear suitable protective clothing
- S37 Wear suitable protective gloves
- S39 Wear eye / face protection
- S45 In case of accident or if you feel unwell, seek medical advice immediately.



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